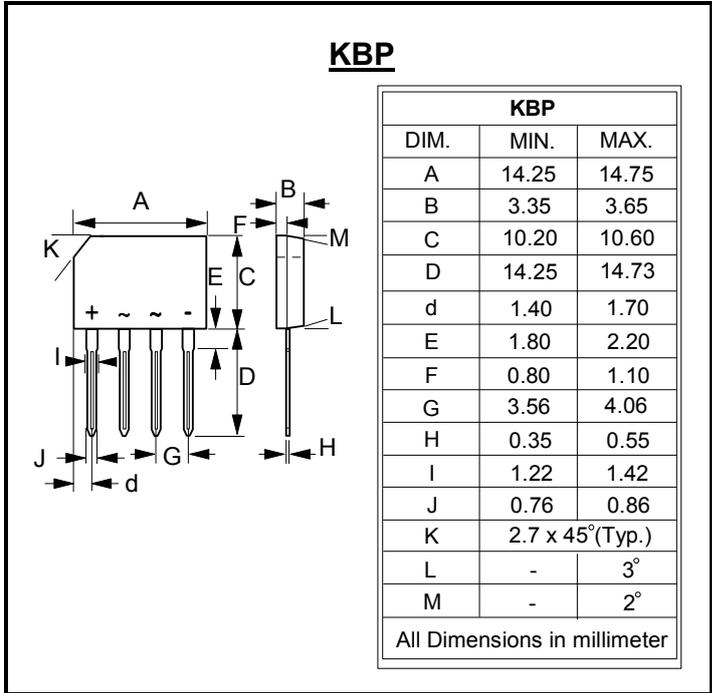


**GLASS PASSIVATED BRIDGE RECTIFIERS**

**REVERSE VOLTAGE – 400 to 1000 Volts  
FORWARD CURRENT – 2.0 Ampere**

- FEATURES**
- Rating to 1000V PRV
  - Ideal for printed circuit board
  - Reliable low cost construction utilizing molded plastic technique
  - The plastic material has UL flammability classification 94V-0
  - UL recognized file #95060
- MECHANICAL DATA**
- Polarity : As marked on body
  - Weight : 0.05 ounces, 1.52 grams
  - Mounting position : Any

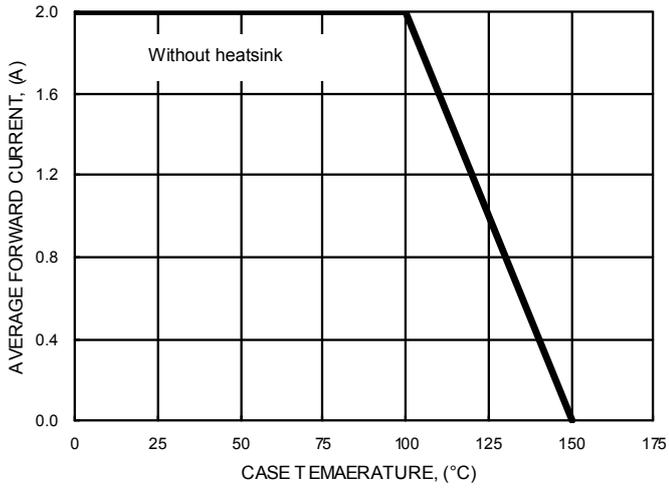


**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**  
Ratings at 25°C ambient temperature unless otherwise specified.

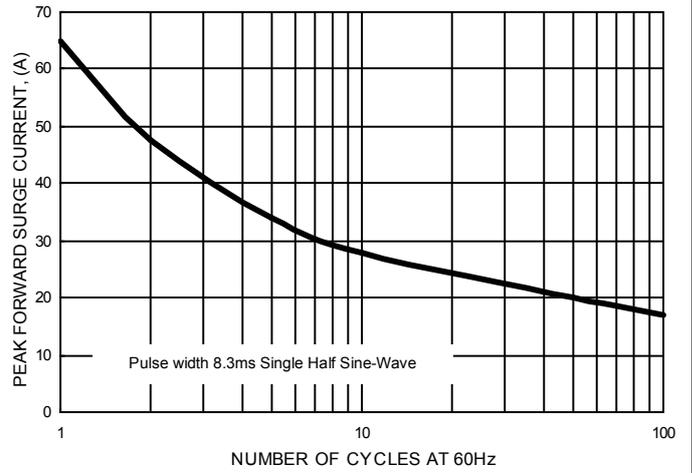
CHARACTERISTICS	SYMBOL	KBP204G	KBP206G	KBP208G	KBP210G	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C=100^\circ C$	$I_{(AV)}$	2.0				A
Peak Forward Surge Current @ $T_j = 25^\circ C$ 8.3ms single half sine-wave @ $T_j = 125^\circ C$	$I_{FSM}$	75 65				A
Peak Forward Surge Current @ $T_j = 25^\circ C$ 1.0ms single half sine-wave @ $T_j = 125^\circ C$	$I_{FSM}$	150 130				A
Maximum Forward Voltage at 2.0A DC	$V_F$	1.1				V
Maximum DC Reverse Current at rated Blocking Voltage @ $T_j=25^\circ C$ @ $T_j=125^\circ C$	$I_R$	5.0 500				$\mu A$
$I^2t$ Rating for fusing ( $3ms \leq t \leq 8.3ms$ )	$I^2t$	17.5				$A^2S$
Typical Junction Capacitance per element (Note 1)	$C_J$	25				pF
Typical thermal resistance (Note 2)	$R_{\theta JC}$	10				$^\circ C/W$
	$R_{\theta JL}$	18				
	$R_{\theta JA}$	40				
Operation Temperature Range	$T_J$	-55 to 150				$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to 150				$^\circ C$

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
(2) Thermal Resistance Junction to Case, Lead and Ambient.

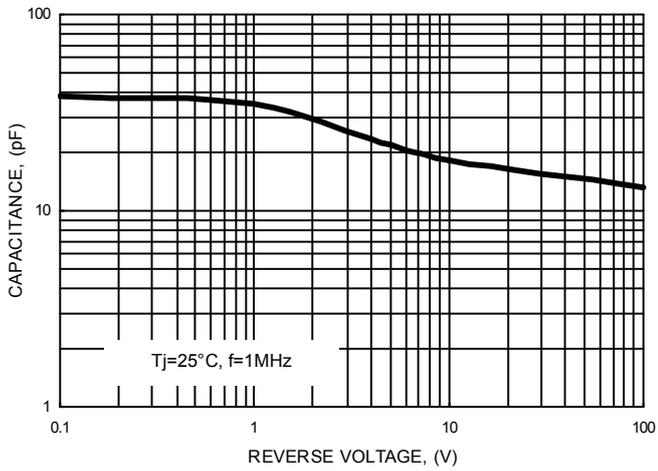
**FIG.1- FORWARD CURRENT DERATING CURVE**



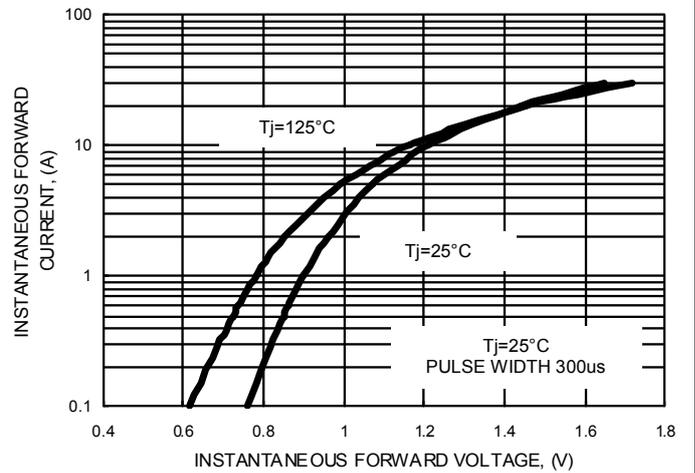
**FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT**



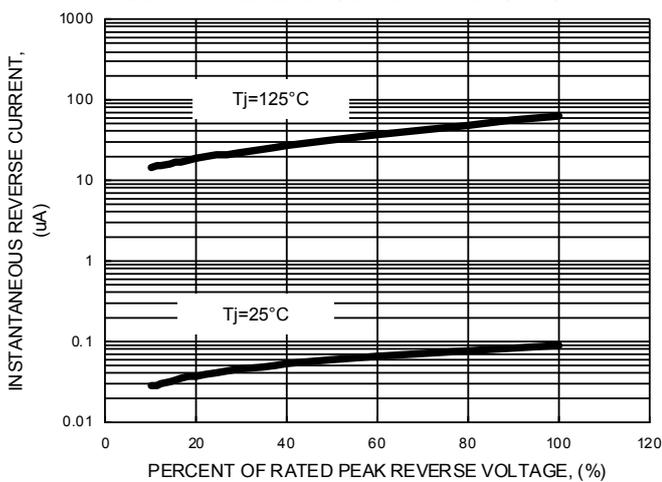
**FIG.3- TYPICAL JUNCTION CAPACITANCE**



**FIG.4- TYPICAL FORWARD CHARACTERISTICS**



**FIG.5- TYPICAL REVERSE CHARACTERISTICS**



**FIG.6- NON-REPETITIVE SURGE CURRENT**

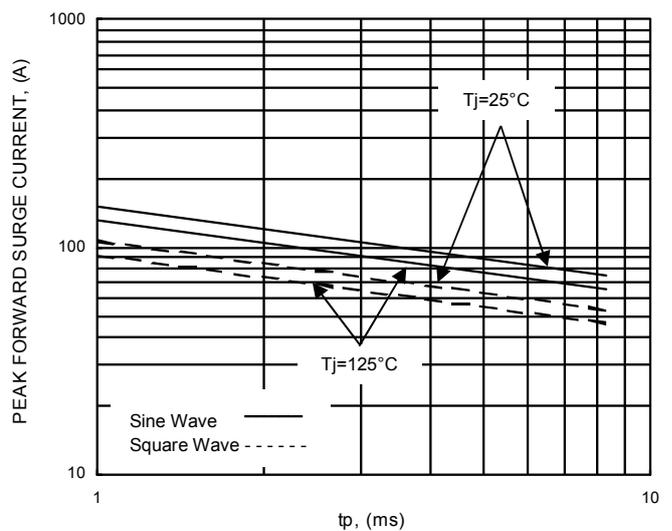
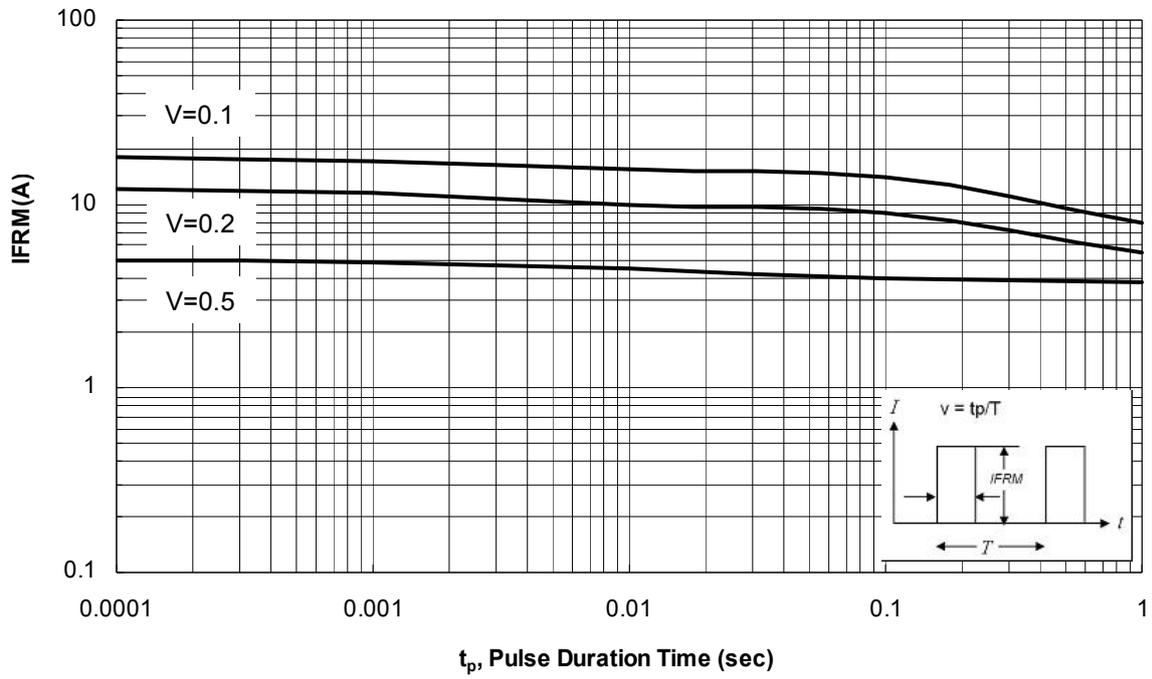


Fig.7 - Admissible Repetitive Peak Forward Current vs. Pulse Duration



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[GSIB680-E3/45](#) [DB101-BP](#) [DBA150G](#) [DBA250G](#) [DBD10G-TM-E](#) [DBF10G](#) [DBG150G](#) [DBG250G](#) [DF01](#) [DF10SA-E345](#) [BU1508-E3/45](#)  
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